

THE CLAIMS

1-2. (Cancelled)

3. (Previously presented) The seating system of claim 20, wherein the sliding mechanism limits the sliding movement of the seat tray to a substantially horizontal movement.

4. (Previously presented) The seating system of claim 21, wherein the biasing element stores energy and has a damping effect upon application of force by a user to move the seat tray forward and releases energy when a user relaxes to automatically move the seat tray rearward.

5. (Cancelled)

6. (Previously presented) The seating system of claim 21, wherein the seat back is connected to a back support member, and wherein downward movement of the back support member in a substantially vertical direction with respect to the base causes the seat back to pivot at the seat tray, thereby reclining the seat back, and thereby causing the seat tray to slide forward with respect to the base.

7-13. (Cancelled)

14. (Previously presented) The seating system of claim 20, wherein the seat back is connected to a back support member, and wherein downward movement of the back support member in a substantially vertical direction with respect to the base causes the seat back to pivot at the seat tray, thereby reclining the seat back, and thereby causing the seat tray to slide forward with respect to the base.

15. (Original) The seating system of claim 14, further comprising a locking mechanism supported with respect to the base for locking the back support member in a fixed position with respect to the base.

16-19. (Cancelled)

20. (Previously presented) A seating system for a personal mobility vehicle, the seating system being capable of accommodating extension tone of a seating system user, the seating system comprising:

a base mounted for movement on wheels;

a seat tray;

a sliding mechanism configured to mount the seat tray for forward and rearward sliding movement in a single plane with respect to the base in a low friction manner;

a seat back pivotally mounted relative to the seat tray at a seat back pivot point that is positioned to be at the anatomical hip pivot point of the user of the seating system; and

a leg support pivotally mounted with respect to the seat tray and depending from the seat tray, the leg support being mounted in a manner that allows the leg support to pivot as the user experiences extension tone, with the leg support pivot point being positioned to be at the anatomical knee pivot point of the user of the seating system; wherein the sliding mechanism is configured with sufficiently low friction to enable the user of the seating system to experience extension tone with little resulting resistance to forward movement of the seat tray and little resulting resistance to pivoting of the leg support; and

wherein the seating system is configured for forward movement of the seat tray and pivoting of the leg support caused by tone extension of the user.

21. (Previously presented) The seating system of claim 20 in which a biasing element is connected relative to the base and the seat tray for biasing the seat tray rearward relative to the base.

22. (Previously presented) A seating system for a personal mobility vehicle, the seating system being capable of accommodating extension tone of a seating system user, the seating system comprising:

a base mounted for movement on wheels;

a seat tray;

a sliding mechanism configured to mount the seat tray for forward and rearward sliding movement in a single plane with respect to the base in a low friction manner;

a seat back pivotally mounted relative to the seat tray at a seat back pivot point that is positioned to be at the anatomical hip pivot point of the user of the seating system;

a leg support pivotally mounted with respect to the seat tray and depending from the seat tray, the leg support being mounted in a manner that allows the leg support to pivot as the user experiences extension tone, with the leg support pivot point being positioned to be at the anatomical knee pivot point of the user of the seating system; and

a biasing element connected relative to the base and the seat tray for biasing the seat tray rearward relative to the base, the biasing element configured to store energy and have a damping effect upon application of force by the user to move the seat tray forward, and the biasing element configured to release energy when a user relaxes to automatically move the seat tray rearward;

wherein the sliding mechanism is configured with sufficiently low friction to enable the user of the seating system to experience extension tone with little resulting resistance to forward movement of the seat tray and little resulting resistance to pivoting of the leg support; and

wherein the seating system is configured for forward movement of the seat tray and pivoting of the leg support caused by tone extension of the user.

23. (Previously presented) The seating system of claim 22, wherein the sliding mechanism limits the sliding movement of the seat tray to a substantially horizontal movement.

24. (Previously presented) The seating system of claim 22, wherein the seat back is connected to a back support member, and wherein downward movement of the back support member in a substantially vertical direction with respect to the base causes the seat back to pivot at the seat tray, thereby reclining the seat back, and thereby causing the seat tray to slide forward with respect to the base.

25. (Previously presented) The seating system of claim 22 further comprising a locking mechanism supported with respect to the base for locking the back support member in a fixed position with respect to the base.

26. (New) The seating system of claim 20 wherein the seat tray is positioned in a seating shell base that is provided with a pivot post and the base has a tilt-in-space block with a guide slot configured to receive the guide pin.

27. (New) The seating system of claim 26 wherein the guide slot is substantially T-shaped with a generally straight upper portion and an arc-shaped lower portion, at an uppermost portion of the guide slot is a pivot post cradle where the pivot post is seated.